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☐ 1. Document ID: US 6665682 B1

Using default format because multiple data bases are involved.

L6: Entry 1 of 22

File: USPT

Dec 16, 2003

US-PAT-NO: 6665682

DOCUMENT-IDENTIFIER: US 6665682 B1

TITLE: Performance of table insertion by using multiple tables or multiple threads

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeKimpe; Daniel Martin	La Selva Beach	CA		
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Moore; Simon Edward	Burbage			GB
Robinson; Gary	San Jose	CA		

US-CL-CURRENT: 707/101; 707/102

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 6651055 B1

L6: Entry 2 of 22

File: USPT

Nov 18, 2003

US-PAT-NO: 6651055

DOCUMENT-IDENTIFIER: US 6651055 B1

**** See image for Certificate of Correction ****

TITLE: OLAP query generation engine

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kilmer; Lee Eric	Stillwater	MN		
Bendickson; Richard Scott	Maple Grove	MN		
Pavelka; Thomas Joseph	Savage	MN		
Jaquier; Gary Lynn	Apple Valley	MN		

US-CL-CURRENT: 707/3; 707/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 3. Document ID: US 6629102 B1

L6: Entry 3 of 22

File: USPT

Sep 30, 2003

US-PAT-NO: 6629102

DOCUMENT-IDENTIFIER: US 6629102 B1

TITLE: Efficiently updating a key table during outline restructure of a multi-dimensional database

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William E.	Santa Clara	CA		
Poelman; John S.	San Jose	CA		
Tomlyn; Craig R.	San Jose	CA		

US-CL-CURRENT: 707/102; 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 4. Document ID: US 6606621 B2

L6: Entry 4 of 22

File: USPT

Aug 12, 2003

US-PAT-NO: 6606621

DOCUMENT-IDENTIFIER: US 6606621 B2

TITLE: Methods and apparatus for aggregating sparse data

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hopeman; Albert A.	Arlington	MA		
Welton; Caleb E.	Malden	MA		
Hicks; Grant E.	Acton	MA		

US-CL-CURRENT: 707/3; 707/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 5. Document ID: US 6601062 B1

L6: Entry 5 of 22

File: USPT

Jul 29, 2003

US-PAT-NO: 6601062

DOCUMENT-IDENTIFIER: US 6601062 B1

TITLE: Active caching for multi-dimensional data sets in relational database management system

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deshpande; Prasad Manikarao	Madison	WI		
Ramasamy; Karthikeyan	Madison	WI		
Shukla; Amit	Madison	WI		
Naughton; Jeffrey F.	Madison	WI		

US-CL-CURRENT: 707/3; 707/100, 711/118

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 6546395 B1

L6: Entry 6 of 22

File: USPT

Apr 8, 2003

US-PAT-NO: 6546395

DOCUMENT-IDENTIFIER: US 6546395 B1

TITLE: Multi-dimensional restructure performance by selecting a technique to modify a relational database based on a type of restructure

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeKimpe; Daniel Martin	La Selva Beach	CA		
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Pham; Khiem Phu	San Jose	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/101

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 6542895 B1

L6: Entry 7 of 22

File: USPT

Apr 1, 2003

US-PAT-NO: 6542895

DOCUMENT-IDENTIFIER: US 6542895 B1

TITLE: Multi-dimensional restructure performance when adding or removing dimensions and dimensions members

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeKimpe; Daniel Martin	La Selva Beach	CA		
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Pham; Khiem Phu	San Jose	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/101

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 6510435 B2

L6: Entry 8 of 22

File: USPT

Jan 21, 2003

US-PAT-NO: 6510435

DOCUMENT-IDENTIFIER: US 6510435 B2

TITLE: Database system and method of organizing an n-dimensional data set

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bayer; Rudolf	D-82194 Grobenzell			DE

US-CL-CURRENT: 707/100; 707/101, 707/102, 707/103R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 6505205 B1

L6: Entry 9 of 22

File: USPT

Jan 7, 2003

US-PAT-NO: 6505205

DOCUMENT-IDENTIFIER: US 6505205 B1

TITLE: Relational database system for storing nodes of a hierarchical index of multi-dimensional data in a first module and metadata regarding the index in a second module

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Kothuri; Ravi	Nashua	NH
Ravada; Siva	Tewksbury	MA
Sharma; Jayant	Nashua	NH
Banerjee; Jayanta	Nashua	NH

US-CL-CURRENT: 707/100; 707/1, 707/101, 707/104.1, 707/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 10. Document ID: US 6490593 B2

L6: Entry 10 of 22

File: USPT

Dec 3, 2002

US-PAT-NO: 6490593

DOCUMENT-IDENTIFIER: US 6490593 B2

TITLE: Apparatus and method for compound on-line analytical processing in databases

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Proctor; Anthony Charles	Stowmarket			GB

US-CL-CURRENT: 707/102; 707/10, 707/100, 707/2, 707/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 11. Document ID: US 6470344 B1

L6: Entry 11 of 22

File: USPT

Oct 22, 2002

US-PAT-NO: 6470344

DOCUMENT-IDENTIFIER: US 6470344 B1

**** See image for Certificate of Correction ****TITLE: Buffering a hierarchical index of multi-dimensional data

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kothuri; Ravi	Nashua	NH		
Ravada; Siva	Tewksbury	MA		
Sharma; Jayant	Nashua	NH		
Banerjee; Jayanta	Nashua	NH		
Singh; Ambuj	Santa Barbara	CA		

US-CL-CURRENT: 707/100; 707/104.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 6405208 B1

L6: Entry 12 of 22

File: USPT

Jun 11, 2002

US-PAT-NO: 6405208

DOCUMENT-IDENTIFIER: US 6405208 B1

TITLE: Dynamic recursive build for multidimensional databases and methods and apparatus thereof

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raghavan; Srinivasan Sundar	San Jose	CA		
Penumarti; Rama Murthy	Fremont	CA		

US-CL-CURRENT: 707/102; 707/100, 707/101, 707/103R, 707/104.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. De
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☐ 13. Document ID: US 6381605 B1

L6: Entry 13 of 22

File: USPT

Apr 30, 2002

US-PAT-NO: 6381605

DOCUMENT-IDENTIFIER: US 6381605 B1

TITLE: Heirarchical indexing of multi-attribute data by sorting, dividing and storing subsets

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kothuri; Ravi	Nashua	NH		
Ravada; Siva	Tewksbury	MA		
Sharma; Jayant	Nashua	NH		
Banerjee; Jayanta	Nashua	NH		

US-CL-CURRENT: 707/100; 707/102, 707/2, 707/4, 707/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 6374234 B1

L6: Entry 14 of 22

File: USPT

Apr 16, 2002

US-PAT-NO: 6374234

DOCUMENT-IDENTIFIER: US 6374234 B1

**** See image for Certificate of Correction ****

TITLE: Aggregations performance estimation in database systems

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Netz; Amir	Bellevue	WA		

US-CL-CURRENT: 707/2; 707/102, 707/4, 707/5, 707/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 15. Document ID: US 6289352 B1

L6: Entry 15 of 22

File: USPT

Sep 11, 2001

US-PAT-NO: 6289352

DOCUMENT-IDENTIFIER: US 6289352 B1

TITLE: Apparatus and method for compound on-line analytical processing in databases

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Proctor; Anthony Charles	Stowmarket			GB

US-CL-CURRENT: 707/102; 707/100, 707/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 16. Document ID: US 6205447 B1

L6: Entry 16 of 22

File: USPT

Mar 20, 2001

US-PAT-NO: 6205447

DOCUMENT-IDENTIFIER: US 6205447 B1

TITLE: Relational database management of multi-dimensional data

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		

US-CL-CURRENT: 707/102; 707/100, 707/3, 707/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 6122636 A

L6: Entry 17 of 22

File: USPT

Sep 19, 2000

US-PAT-NO: 6122636

DOCUMENT-IDENTIFIER: US 6122636 A

TITLE: Relational emulation of a multi-dimensional database index

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Moore; Simon Edward	San Jose	CA		
Robinson; Gary	San Jose	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/102; 707/104.1, 707/2, 707/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 5978796 A

L6: Entry 18 of 22

File: USPT

Nov 2, 1999

US-PAT-NO: 5978796

DOCUMENT-IDENTIFIER: US 5978796 A

**** See image for Certificate of Correction ****TITLE: Accessing multi-dimensional data by mapping dense data blocks to rows in a relational database

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Robinson; Gary	San Jose	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/3; 707/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 5943668 A

L6: Entry 19 of 22

File: USPT

Aug 24, 1999

US-PAT-NO: 5943668

DOCUMENT-IDENTIFIER: US 5943668 A

**** See image for Certificate of Correction ****TITLE: Relational emulation of a multi-dimensional database

DATE-ISSUED: August 24, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Moore; Simon Edward	San Jose	CA		
Robinson; Gary	San Jose	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/3; 707/100, 707/102, 707/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 20. Document ID: US 5940818 A

L6: Entry 20 of 22

File: USPT

Aug 17, 1999

US-PAT-NO: 5940818

DOCUMENT-IDENTIFIER: US 5940818 A

TITLE: Attribute-based access for multi-dimensional databases

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/2; 707/100, 707/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 21. Document ID: US 5926818 A

L6: Entry 21 of 22

File: USPT

Jul 20, 1999

US-PAT-NO: 5926818

DOCUMENT-IDENTIFIER: US 5926818 A

TITLE: Relational database implementation of a multi-dimensional database

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		

US-CL-CURRENT: 707/100; 707/101

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 22. Document ID: US 5905985 A

L6: Entry 22 of 22

File: USPT

May 18, 1999

US-PAT-NO: 5905985

DOCUMENT-IDENTIFIER: US 5905985 A

TITLE: Relational database modifications based on multi-dimensional database modifications

DATE-ISSUED: May 18, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Malloy</u> ; William Earl	Santa Clara	CA		
Tomlyn; Craig Reginald	San Jose	CA		

US-CL-CURRENT: 707/100; 707/101, 707/102

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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 IBM Technical Disclosure Bulletins

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END OF SEARCH HISTORY